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CHINA	400-810-5858 010-6475 1880	www.samsung.com
EGYPT	0800-726786	-
HONG KONG	(852) 3698-4698	www.samsung.com/hk www.samsung.com/hk_en/
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SERIES 5

LCD TV
user manual

imagine the possibilities

Thank you for purchasing this Samsung product. To receive more complete service, please register your product at

www.samsung.com/register

Model _____ Serial No. _____

Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance. Product design and specifications may be changed without notice.

Still image warning

Avoid displaying still images (like jpeg picture files) or still image element (like TV programme logo, panorama or 4:3 image format, stock or news bar at screen bottom etc.) on the screen. Constant displaying of still picture can cause uneven wear of screen phosphor, which will affect image quality. To reduce risk of this effect, please follow below recommendations:

- Avoid displaying the same TV channel for long periods.
- Always try do display any image on full screen, use TV set picture format menu for best possible match.
- Reduce brightness and contrast values to minimum required to achieve desired picture quality, exceeded values may speed up the burnout process.
- Frequently use all TV features designed to reduce image retention and screen burnout, refer to proper user manual section for details.

Securing the Installation Space

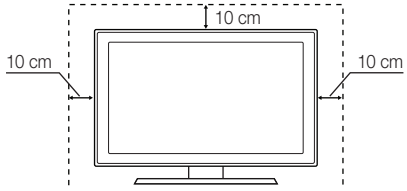
Keep the required distances between the product and other objects (e.g. walls) to ensure proper ventilation.
Failing to do so may result in fire or a problem with the product due to an increase in the internal temperature of the product.

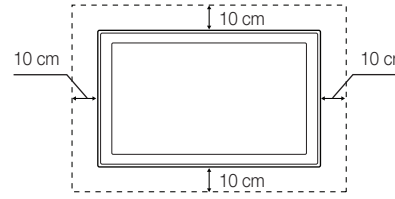
✎ When using a stand or wall-mount, use parts provided by Samsung Electronics only.

- If you use parts provided by another manufacturer, it may result in a problem with the product or an injury due to the product falling.

✎ The appearance may differ depending on the product.

Installation with a stand.	Installation with a wall-mount.





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Check the Symbol!

TOOLS

This function can be used by pressing the TOOLS button on the remote control.

Note

One-Touch Button

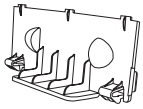
Getting Started

Accessories

✎ Please make sure the following items are included with your LCD TV. If any items are missing, contact your dealer.

✎ The items' colours and shapes may vary depending on the models.

- Remote Control & Batteries (AAA x 2)
- Owner's Instructions
- Warranty Card / Safety Guide (Not available in some locations)
- Cleaning Cloth
- Power Cord



- Blanking Bracket

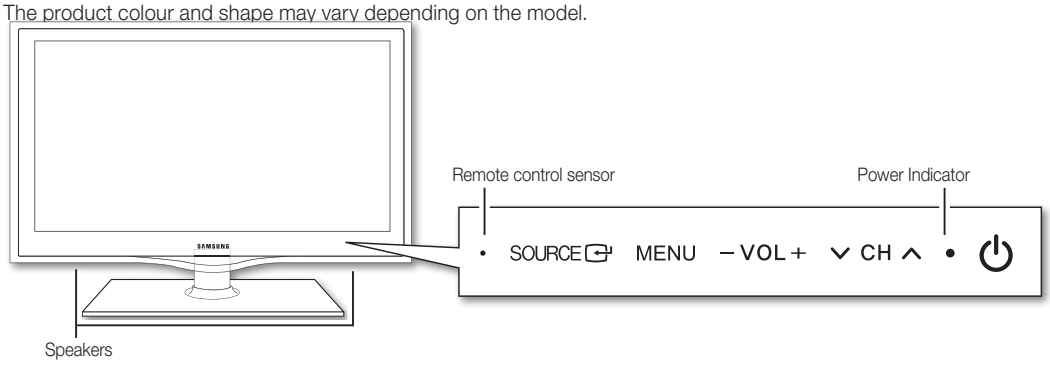
- FM Transmitter (Not available in some locations)

(46 inch TV)

- Holder-Ring (4ea)

Viewing the Control Panel

✎ The product colour and shape may vary depending on the model.

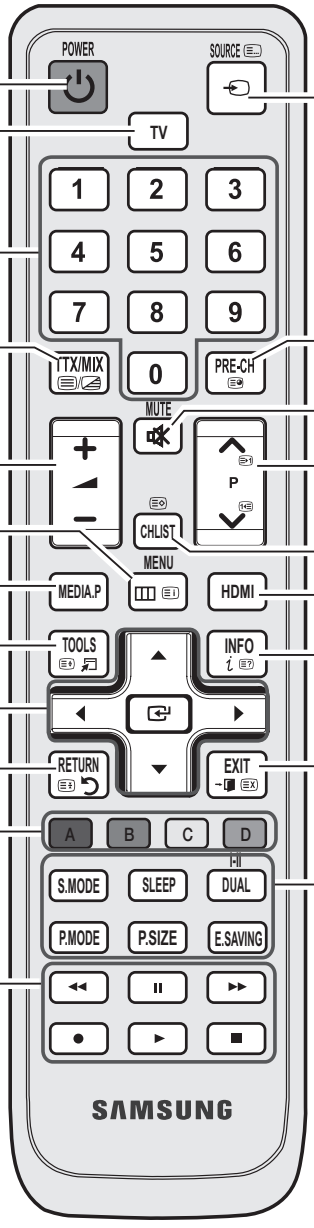


(Power)	Turns the TV on or off.
Power Indicator	Blinks and turns off when the power is on and lights up in standby mode.
SOURCE	Toggles between all the available input sources. In the on-screen menu, use this button as you would use the ENTER button on the remote control.
MENU	Displays an on-screen menu, the OSD (on screen display), of your TV's features.
– VOL +	Adjusts the volume. In the OSD, use the – VOL + buttons as you would use the ◄ and ► buttons on the remote control.
CH	Changes the channels. In the OSD, use the CH buttons as you would use the ▼ and ▲ buttons on the remote control.
Remote control sensor	Aim the remote control towards this spot on the TV.

Standby mode

Do not leave your TV in standby mode for long periods of time (when you are away on a holiday, for example). A small amount of electric power is still consumed even when the power button is turned off. It is best to unplug the power code.

Viewing the Remote Control



Turns the TV on and off. (P. 6)

Selects the TV mode directly.

Changes the channel.

Alternately selects Teletext, Double or MiX.

Adjusts the volume.

Displays the main on-screen menu. (P. 9)

Views the Media play. (P. 19)

Quickly selects frequently used functions.

Selects on-screen menu items and change menu values.

Returns to the previous menu. (P. 9)

Buttons in the **Channel Manager, Media Play** menu, etc.

Use these buttons in the **Media Play** and **Anynet+** modes.([●]: controls recording on Samsung recorders with the Anynet+ feature)

Displays and selects the available video sources. (P. 8)

Returns to the previous channel.

Cuts off the sound temporarily.

Changes channels.

Displays channel list on the screen. (P. 11)

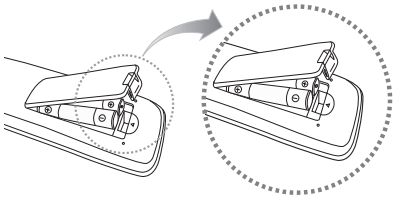
Selects the HDMI mode directly.

Displays information on the TV screen. (P. 15)

Exit the menu. (P. 9)

S.MODE : Selects the sound mode. (P. 14)
SLEEP : Settings the Sleep Timer. (P. 15)
DUAL : Selects the dual sound mode. (P. 15)
P.MODE : Selects the picture mode. (P. 11)
P.SIZE : Choose the picture size. (P. 12)
E.SAVING : Selects the energy saving mode. (P. 11)

Installing batteries (Battery size: AAA)



NOTE

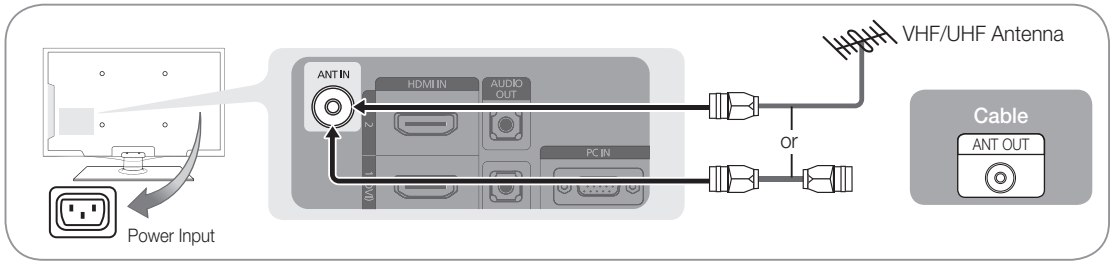
- Use the remote control within 23 feet from the TV.
- Bright light may affect the performance of the remote control. Avoid using nearby special fluorescent light or neon signs.
- The colour and shape may vary depending on the model.

Getting Started

Connecting to an Antenna

When the TV is initially powered on, basic settings proceed automatically.

✎ Preset: Connecting the mains and antenna.



Plug & Play (Initial Setup)

When the TV is initially powered on, a sequence of on-screen prompts will assist in configuring basic settings. Press the POWER ⏻ button. Available only when **Input** source is set to **TV**.

1	Selecting a language	Press the ▲ or ▼ button then press the ENTER ↵ button. Select the desired OSD (On Screen Display) language.
2	Selecting **Store Demo** or **Home Use**	Press the ◄ or ► button then press the ENTER ↵ button. ▪ Select the **Home Use** mode. **Store Demo** Mode is for retail environments. ▪ Returning the unit's settings from **Store Demo** to **Home Use** (Standard): Press the volume button on the TV. When the volume OSD is displayed, press and hold MENU for 5 sec.
3	Selecting an area	Press the ▲ or ▼ button then press the ENTER ↵ button. Select the appropriate area.
4	Selecting a channel	The channel search will start automatically. For more information, refer to **Channel** → **Auto Store**. (P.10) ✎ Press the ENTER ↵ button at any time to interrupt the memorisation process.
5	Setting the clock	Press the ◄ or ► button to select **Day**, **Month**, **Year**, **Hour** or **Minute**. Set these by pressing the ▲ or ▼ button.
6	Viewing the **HD Connection Guide**.	The connection method for the best HD screen quality is displayed.
7	**Enjoy your TV**.	Press the ENTER ↵ button.

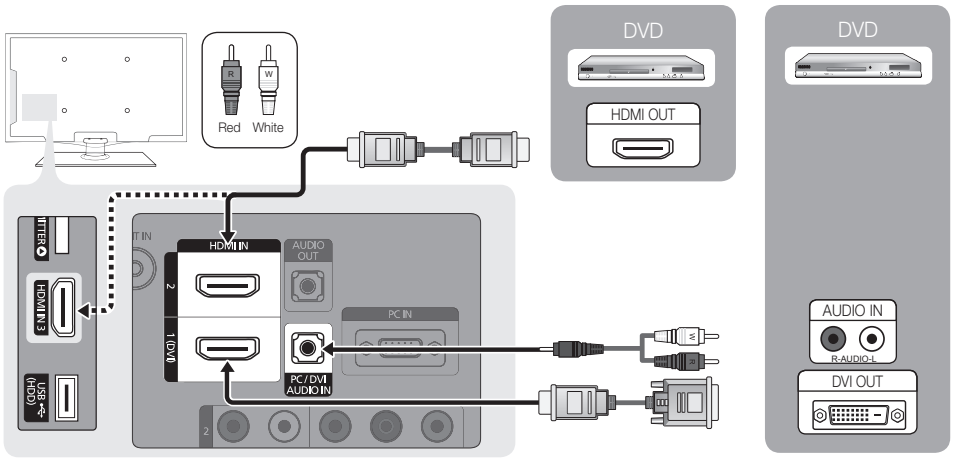
If you want to reset this feature...

Select **Setup - Plug & Play** (Initial setup). Enter your 4 digit PIN number. The default PIN number is '**0-0-0-0**'. If you want to change PIN number, use the **Change PIN** function.

Connecting to an AV Device

Using an HDMI / DVI Cable: HD connection (up to 1080p)

Available devices: DVD, Blu-ray player, HD cable box, HD STB (Set-Top-Box) satellite receiver, cable box, satellite receiver (STB)

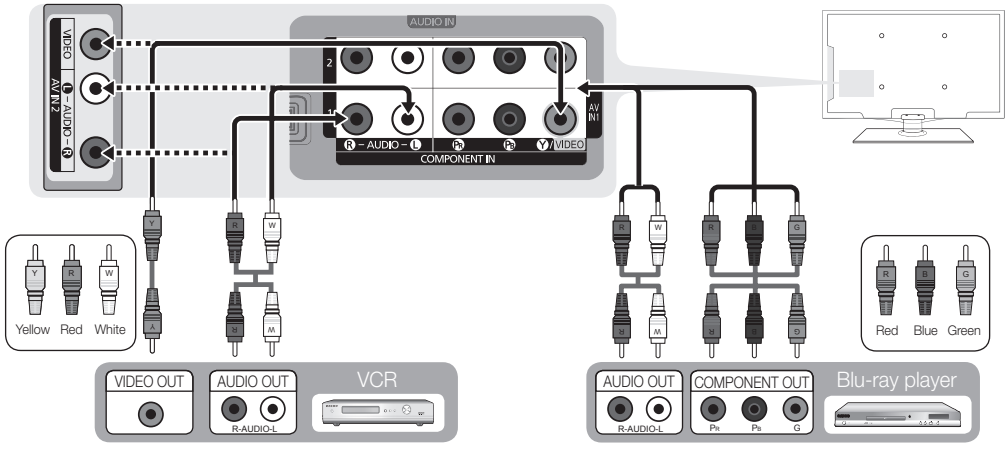


✎ **HDMI IN 1(DVI), 2, 3 / PC/DVI AUDIO IN**

- When using an HDMI/DVI cable connection, you must use the **HDMI IN 1(DVI)** jack. For the DVI cable connection, use a DVI to HDMI cable or DVI-HDMI (DVI to HDMI) adapter for video connection and the **PC/DVI AUDIO IN** jacks for audio.
- If an external device such as a DVD / Blu-ray player / cable box / STB satellite receiver supporting a HDMI versions older than 1.3 is connected, the TV may operate abnormally (e.g. no screen display / no sound / annoying flicker / abnormal colour).
- If there is no sound after connecting an HDMI cable, check the HDMI version of the external device. If you suspect the version is older than 1.3, contact the provider of the device to confirm the HDMI version and request an upgrade.
- It is recommended you purchase an HDMI-certified cable. Otherwise, the screen may appear blank or a connection error may occur.

Using a Component (up to 1080p) or Audio/Video (480i only) Cable

Available devices: VCR, DVD, Blu-ray player, cable box, STB satellite receiver



✎ **COMPONENT IN 1, 2 / AV IN 1,2**: When connecting to **AV IN 1**, the colour of the **AV IN 1 [Y/VIDEO]** jack (Green) does not match the colour of the video cable (Yellow).

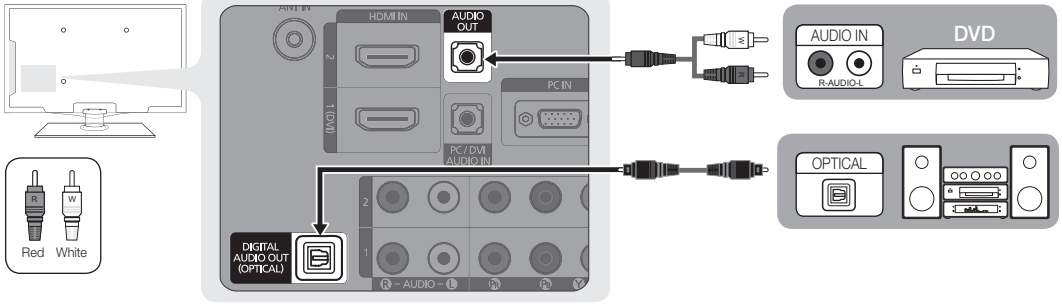
✎ To obtain the best picture quality, the Component connection is recommended over the A/V connection.

Connections

Connecting to an Audio Device

Using an Optical or Audio Cable Connection

Available devices: digital audio system, amplifier, DVD home theatre



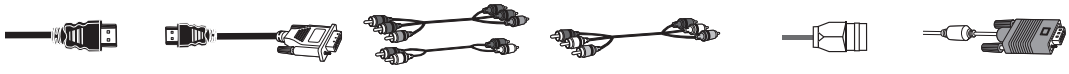
✎ DIGITAL AUDIO OUT (OPTICAL)

- When a digital audio system is connected to the **DIGITAL AUDIO OUT (OPTICAL)** jack, decrease the volume of both the TV and the system.
- 5.1 CH (channel) audio is available when the TV is connected to an external device supporting 5.1 CH.
- When the receiver (home theatre) is set to on, you can hear sound output from the TV's optical jack. When the TV is receiving a DTV signal, the TV will send 5.1 CH sound to the home theatre receiver. When the source is a digital component such as a DVD / Blu-ray player / cable box / STB (Set-Top-Box) satellite receiver and is connected to the TV via HDMI, only 2 CH audio will be heard from the home theatre receiver. If you want to hear 5.1 CH audio, connect the digital audio out jack from your DVD / Blu-ray player / cable box / STB satellite receiver directly to an amplifier or home theatre.

✎ **AUDIO OUT** : Connects to the audio input jacks on your amplifier/home theatre.

- When connecting, use the appropriate connector (sold separately).
- When an audio amplifier is connected to the **AUDIO OUT** jacks: Decrease the volume of the TV and adjust the volume level with the amplifier's volume control.

Input Cables (Sold Separately)

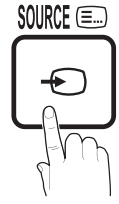


HDMI	HDMI-DVI	Component	Composite (AV)	Coaxial (RF)	VGA

Changing the Input Source

Source List

Use to select TV or other external input sources such as DVD / Blu-ray players / cable box / STB satellite receiver connected to the TV.



■ **TV / AV1 / AV2 / Component1 / Component2 / PC / HDMI1/DVI / HDMI2 / HDMI3 / USB**

✎ In the **Source List**, connected inputs will be highlighted.

✎ **PC** always stay activated.

Edit Name

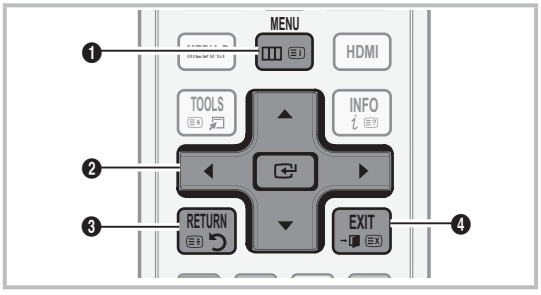
■ **VCR / DVD / Cable STB / Satellite STB / PVR STB / AV Receiver / Game / Camcorder / PC / DVI PC / DVI Devices / TV / IPTV / Blu-ray / HD DVD / DMA**: Name the device connected to the input jacks to make your input source selection easier.

✎ When a PC with a resolution of 1920 x 1080 @ 60Hz is connected to the **HDMI IN 1(DVI)** port, you should set to **DVI PC** mode under **Edit Name**.

✎ When connecting an HDMI/DVI cable to the **HDMI IN 1(DVI)** port, you should set to **DVI PC** or **DVI Devices** mode under **Edit Name**.

How to Navigate Menu

Before using the TV, follow the steps below to learn how to navigate the menu and select and adjust different functions.



1. **ENTER** / Direction button: Move the cursor and select an item. Confirm the setting.
2. **RETURN** button: Returns to the previous menu.
3. **MENU** button: Displays the main on-screen menu.
4. **EXIT** button: Exits the on-screen menu.

How to Operate the OSD (On Screen Display)

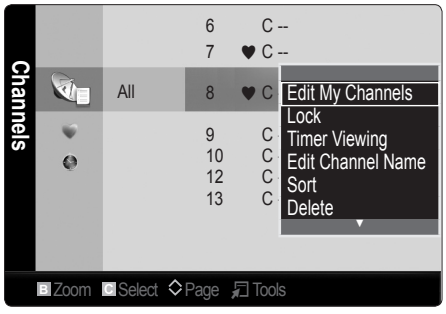
The access step may differ depending on the selected menu.

1	MENU	The main menu options appears on the screen: **Picture, Sound, Channel, Setup, Input, Application, Support**.
2	▲ / ▼	Select an icon with the ▲ or ▼ button.
3	ENTER	Press ENTER to access the sub-menu.
4	▲ / ▼	Select the desired submenu with the ▲ or ▼ button.
5	◄ / ►	Adjust the value of an item with the ◄ or ► button. The adjustment in the OSD may differ depending on the selected menu.
6	ENTER	Press ENTER to complete the configuration.
7	EXIT	Press EXIT.

Channel Menu

Channel Manager

Delete or set favourites channels. Select a channel in the **Channels, My Channels** or **Scheduled.**



- **Channels**: Shows the channel list according to channel type.
- **My Channels**: Shows the group of the channel.
- **Scheduled**: Shows all the currently reserved programmes.

Using the colour buttons with the **Channel Manager**

- B Green (**Zoom**): Enlarges or shrinks a channel number.
- C Yellow (**Select**): Select desired channels and press the Yellow button to set all the selected channels at the same time. The ✓ mark appears to the left of the selected channels.
- (**Page**): Move to next or previous page.
- (**Tools**): Displays the **Channel Manager** option menu. (The Options menus may differ depending on the situation.)

Channel Status Display Icons

Icons	Operations
✓	A channel selected.
♥	A channel set as a Favourite.
🔒	A locked channel.
⏲	A reserved programme.

Using Favourite Channels

♥ My Channels

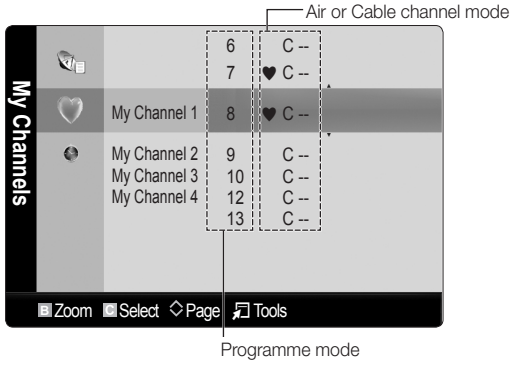
(in **Channel Manager**)

Shows all favourite channels.

■ **Edit My Channels** TOOLS : You can set the selected channels to desired my channels group.

✎ The "♥" symbol will be displayed and the channel will be set as a my channel.

1. Select a channel and press the TOOLS button.
2. Add or delete a channel in the my channel groups you want among 1, 2, 3 and 4.
   - One or more groups can be selected.
3. After you have changed the settings, the channel list for each group can be viewed in **My Channels**.



Retuning channels

Area

You can change the desired area.

Auto Store

Scans for a channel automatically and stores in the TV.

✎ Automatically allocated programme numbers may not correspond to actual or desired programme numbers. If a channel is locked using the **Child Lock** function, the PIN input window appears.

Manual Store

Scans for a channel manually and stores in the TV.

✎ If a channel is locked using the **Child Lock** function, the PIN input window appears.

■ **Programme (0~99), Colour System, Sound System, Channel, Search)**: If there is abnormal sound or no sound, reselect the sound standard required.

✎ Channel mode

- **P** (programme mode): When tuning is complete, the broadcasting stations in your area have been assigned to position numbers from P0 to P99. You can select a channel by entering the position number in this mode.
- **C** (aerial channel mode) / **S** (cable channel mode): These two modes allow you to select a channel by entering the assigned number for each aerial broadcasting station or cable channel.

Editing channels

Channel Manager Option Menu

(in **Channel Manager**)

1. Select a channel and press the TOOLS button.
2. Edit the channel name using the **Edit Channel Name** menu respectively.

■ **Edit Channel Name**: Assign your own channel name.

Other Features

Channel Manager Option Menu

(in **Channel Manager**)

Set each channel using the **Channel Manager** menu options (**Lock / Unlock, Timer Viewing, Sort, Delete, Select All / Deselect All**). Option menu items may differ depending on the channel status.

1. Select a channel and press the TOOLS button.
2. Select a function and change its settings.

■ **Lock / Unlock**: Lock a channel so that the channel cannot be selected and viewed.

✎ **NOTE**

- This function is available only when the **Child Lock** is set to **On**.
- The PIN input screen appears. Enter your 4-digit PIN, the default of which is "0-0-0-0". Change the PIN using the **Change PIN** option.

■ **Timer Viewing**: You can set a desired channel to be displayed automatically at the intended time. Set the current time first to use this function.

■ **Sort**: This operation allows you to change the programme numbers of the stored channels. This operation may be necessary after using the auto store.

■ **Delete**: You can delete a channel to display the channels you want.

■ **Select All / Deselect All**: Select all the channels or deselect all the selected channels in the channel manager.

Scheduled

(in **Channel Manager**)

You can view, modify or delete a a show you have reserved to watch.

- **Change Info**: Change a show you have reserved to watch.
- **Cancel Schedules**: Cancel a show you have reserved to watch.
- **Information**: Display a show you have reserved to watch. (You can also change the reservation information.)
- **Select All / Deselect All**: Select or deselect all reserved programmes.

Channel List

You can see all the channels searched.

Fine Tune

If the signal is weak or distorted, fine tune the channel manually.

Fine tuned channels are marked with an asterisk "*".

Picture Menu

Changing the Preset Picture Mode

Mode

Select your preferred picture type.

- **Dynamic**: Suitable for a bright room.
- **Standard**: Suitable for a normal environment.
- **Natural**: Suitable for reducing eye strain.

  ✎ **Natural** is not available in PC mode.
- **Movie**: Suitable for watching movies in a dark room.

Adjusting picture settings

Backlight / Contrast / Brightness / Sharpness / Colour / Tint (G/R)

Your television has several setting options for picture quality control.

✎ **NOTE**

- In analogue **TV, AV** modes of the PAL system, the **Tint (G/R)** function is not available.
- In PC mode, you can only make changes to **Backlight, Contrast** and **Brightness**.
- Settings can be adjusted and stored for each external device connected to the TV.

Economical Solutions

ECO Solution

- **Energy Saving (Off / Low / Medium / High / Picture Off / Auto)** TOOLS : Adjust the brightness of the TV in order to reduce power consumption. If you select **Picture Off**, the screen is turned off, but the sound remains on. Press any button except volume button to turn on the screen.
- **ECO Sensor (Off / On)**: To enhance your power savings; the picture settings will automatically adapt to the light in the room.

  Min Backlight: When **ECO sensor** is **On**, the minimum screen brightness can be adjusted manually.

  ✎ If **Eco Sensor** is **On**, the display brightness may change (become slightly darker or brighter) depending on the surrounding light intensity.
- **No Signal Power Off (Off / 15 min / 30 min / 60 min)**: Activates the Stand-by mode, in the case of "No Signal" or "Check Signal Cable" status for a certain period of time defined by the user.

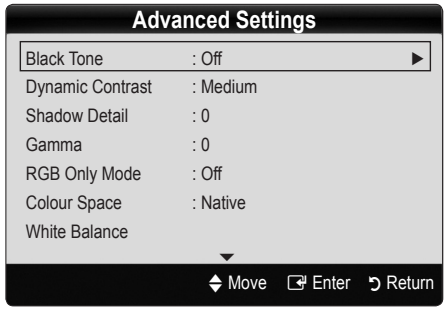
  ✎ Disabled when the PC is in power saving mode.

Changing the Picture Options

Advanced Settings

(available in **Standard / Movie** mode)
You can adjust the detailed setting for the screen including colour and contrast.

✎ In PC mode, you can only make changes to **Dynamic Contrast, Gamma** and **White Balance**.



- **Black Tone (Off / Dark / Darker / Darkest)**: Select the black level to adjust the screen depth.
- **Dynamic Contrast (Off / Low / Medium / High)**: Adjust the screen contrast.
- **Shadow Detail (-2~+2)**: Increase the brightness of dark images.
  ✎ Disabled under PC mode.
- **Gamma**: Adjust the primary colour intensity.
- **RGB Only Mode (Off / Red / Green / Blue)**: You can adjust **Colour** or **Tint** of **Red, Green** or **Blue** for the picture from an external device (DVD player, home theatre, etc.).
- **Colour Space (Auto / Native)**: Adjust the range of colours available to create the image.
- **White Balance**: Adjust the colour temperature for a more natural picture.

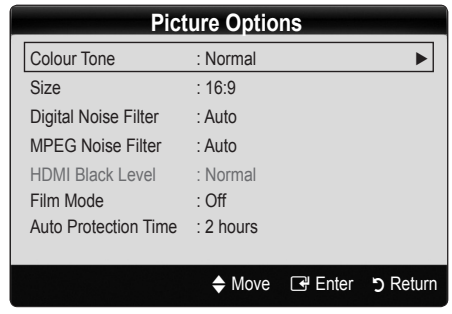
  R-Offset / G-Offset / B-Offset: Adjust each colour's (red, green, blue) darkness.

  R-Gain / G-Gain / B-Gain: Adjust each colour's (red, green, blue) brightness.

  Reset: Resets the **White Balance** to it's default settings.
- **Flesh Tone**: Emphasize pink "**Flesh Tone**."
- **Edge Enhancement (Off / On)**: Emphasize object boundaries.
  ✎ Available when the picture mode is set to **Standard** and **Movie** and when the external input is set to HDMI or Component.
  ✎ Some external devices may not support this function.

Picture Options

✎ In PC mode, you can only make changes to the **Colour Tone, Size** and **Auto Protection Time**.



- **Colour Tone (Cool / Normal / Warm1 / Warm2)**
  ✎ **Warm1** or **Warm2** will be deactivated when the picture mode is **Dynamic**.
  ✎ Settings can be adjusted and stored for each external device connected to an input on the TV.
- **Size**: Your cable box/satellite receiver may have its own set of screen sizes as well. However, we highly recommend you use 16:9 mode most of the time.

  16:9 : Adjusts the picture size to 16:9 for DVDs or wide broadcasting.

  Wide Zoom: Magnifies the picture size more than 4:3.
  ✎ Adjusts the Position by using ▲, ▼ buttons.

  Zoom: Magnifies the 16:9 wide pictures vertically to fit the screen size.
  ✎ Adjusts the Position or Size by using ▲, ▼ button.

  4:3 : The default setting for a movie or normal broadcasting.
  ✎ Do not watch in 4:3 format for a long time. Traces of borders displayed on the left, right and centre of the screen may cause image retention(screen burn) which are not covered by the warranty.

  Screen Fit: Displays the full image without any cut-off when HDMI (720p / 1080i / 1080p) or Component (1080i / 1080p) signals are inputted.

✎ NOTE

- After selecting Screen Fit in HDMI (1080i / 1080p) or Component (1080i / 1080p) mode: Adjusts the **Position** or **Size** by using ▲, ▼, ◄, ► button.
- Depending on the input source, the picture size options may vary.
- The available items may differ depending on the selected mode.
- In PC mode, only **16:9** and **4:3** modes can be adjusted.
- Settings can be adjusted and stored for each external device connected to an input of the TV.
- If you use the **Screen Fit** function with HDMI 720p input, 1 line will be cut at the top, bottom, left and right as in the overscan function.

■ **Digital Noise Filter (Off / Low / Medium / High / Auto / Auto Visualisation / Demo)**: When the broadcast signal is weak, some static and ghosting may appear. Select one of the options until the best picture is displayed.

Auto Visualisation: When changing analogue channels, displays signal strength.

✎ Only available for analogue channels.

✎ When bar is green, you are receiving the best possible signal.

■ **MPEG Noise Filter (Off / Low / Medium / High / Auto)**: Reduces MPEG noise to provide an improved picture quality.

✎ Disabled under PC mode.

■ **HDMI Black Level (Normal / Low)**: Selects the black level on the screen to adjust the screen depth.

✎ Available only in HDMI mode (RGB signals).

■ **Film Mode (Off / Auto1 / Auto2)**: Sets the TV to automatically sense and process film signals from all sources and adjust the picture for optimum quality.

✎ Available in TV, AV, COMPONENT (480i / 1080i) and HDMI (480i / 1080i).

■ **Auto Protection Time (2 hours / 4 hours / 8 hours / 10 hours / Off)**: If the same image remains on the screen, Auto Screen Burn Protector will work.

Picture Reset (OK / Cancel)

Resets your current picture mode to its default settings.

Setting up the TV with Your PC

Set the input source to PC.

Auto Adjustment TOOLS

Adjust frequency values/positions and fine tune the settings automatically.

✎ Not available when connecting through HDMI/DVI cable.

Screen

■ **Coarse / Fine**: Removes or reduces picture noise. If the noise is not removed by Fine-tuning alone, then adjust the frequency as best as possible (**Coarse**) and Fine-tune again. After the noise has been reduced, readjust the picture so that it is aligned to the centre of screen.

■ **Position**: Adjust the PC screen position with direction button (▲ / ▼ / ◄ / ►).

■ **Image Reset**: Resets the image to default settings.

Using Your TV as a Computer (PC) Display

Setting Up Your PC Software (Based on Windows XP)

Depending on the version of Windows and the video card, the actual screens on your PC may differ in which case the same basic set-up information will almost always be applied. (If not, contact your computer manufacturer or Samsung Dealer.)

1. Click on “Control Panel” on the Windows start menu.
2. Click on “Appearance and Themes” in the “Control Panel” window and a display dialog-box will appear.
3. Click on “Display” and a display dialog box will appear.
4. Navigate to the “Settings” tab on the display dialog-box.

- The correct size setting (resolution) [Optimum: 1920 X 1080 pixels]
- If a vertical-frequency option exists on your display settings dialog box, the correct value is “60” or “60 Hz”. Otherwise, just click “OK” and exit the dialog box.

Sound Menu

Changing the Preset Sound Mode

Mode TOOLS

- **Standard**: Selects the normal sound mode.
- **Music**: Emphasizes music over voices.
- **Movie**: Provides the best sound for movies.
- **Clear Voice**: Emphasizes voices over other sounds.
- **Amplify**: Increase the intensity of high-frequency sound to allow a better listening experience for the hearing impaired.

Adjusting sound settings

Equalizer

Adjusts the sound mode.

- **Balance L/R**: Adjusts the balance between the right and left speaker.
- **100Hz / 300Hz / 1KHz / 3KHz / 10KHz** (Bandwidth Adjustment): Adjusts the level of specific bandwidth frequencies.
- **Reset**: Resets the equalizer to its default settings.

Sound Systems, Etc.

Virtual Surround (Off / On)

This function provides a virtual 5.1 channel surround sound experience through a pair of speakers or headphones using HRTF (Head Related Transfer Function) technology.

✎ If **Speaker Select** is set to **External Speaker**, **Virtual Surround** is disabled.

Dialog Clarity (Off / On)

This function allows you to increase the intensity of a voice over background music or sound effects so that dialog can be heard more clearly when viewing a show.

Auto Volume (Off / Normal / Night)

To equalize the volume level on each channel, set to **Normal**.

- **Night**: This mode provides an improved sound experience compared to **Normal** mode, making almost no noise. It is useful at night..

Speaker Select

A sound echo may occur due to a difference in decoding speed between the main speaker and the audio receiver. In this case, set the TV to **External Speaker**.

✎ When **Speaker Select** is set to **External Speaker**, the volume and MUTE buttons will not operate and the sound settings will be limited.

✎ When **Speaker Select** is set to **External Speaker**, you should use these settings.

- **TV speaker: Off , External speaker: On**

✎ When **Speaker Select** is set to **TV Speaker**, you should use these settings.

- **TV speaker: On , External speaker: On**

✎ If there is no video signal, both speakers will be mute.

SPDIF Output

SPDIF (Sony Philips Digital Interface) is used to provide digital sound, reducing interference going to speakers and various digital devices such as a DVD player.

- **Audio Format**: During the reception of a digital TV broadcast, you can select the Digital Audio output (SPDIF) format from the options **PCM** or **Dolby Digital**.

  ✎ By connecting to 5.1ch speakers in a dolby digital setup, maximize your interactive 3D sound experience.

- **Audio Delay**: Correct audio-video mismatch, when watching TV or video, and listening to digital audio output using an external device such as an AV receiver (0ms ~ 250ms).

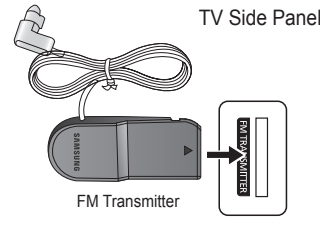
FM Transmitter

✎ Not available in some locations

You can listen to TV sound from FM receiver speaker by transmitting audio signals by FM frequencies.

✎ For more detailed information, refer to "**FM Transmitter Setup**". (P. 28)

Connecting a FM Transmitter



Insert FM Transmitter Module into the Socket which is located at the side panel of TV.

- **FM Transmitter (Off / On)**: Turns FM transmitter on/off.
- **FM Frequency**: Sets FM transmitter frequency.

Sound Reset (OK / Cancel)

Reset all sound settings to the factory defaults.

Selecting the Sound Mode

When you set to **Dual I II**, the current sound mode is displayed on the screen.

	Audio Type	Dual I-II	Default
A2 Stereo	Mono	Mono	Automatic change
	Stereo	Stereo ↔ Mono	
	Dual	Dual I ↔ Dual II	Dual I
NICAM Stereo	Mono	Mono	Automatic change
	Stereo	Mono ↔ Stereo	
	Dual	Mono ↔ Dual I Dual II	Dual I

✎ If the stereo signal is weak and an automatic switching, occurs, then switch to the mono.

✎ Only activated in stereo sound signal.

✎ Only available when the **Input** source is set to **TV**.

Setup Menu

Setting the Time

Time

✎

■ **Clock**: Setting the clock is for using various timer features of the TV.

✎ The current time will appear every time you press the **INFO** button.

✎ If you disconnect the power cord, you have to set the clock again.

✎ You can set the **Day**, **Month**, **Year**, **Hour** and **Minute** directly by pressing the number buttons on the remote control.

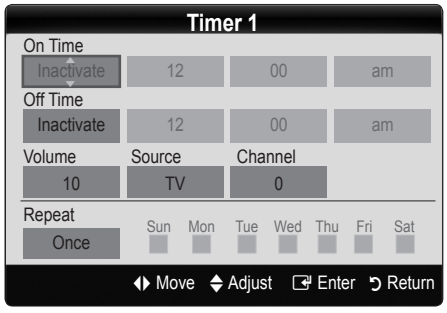
Using the Sleep Timer

■ **Sleep Timer** TOOLS : Automatically shuts off the TV after a preset period of time. (30, 60, 90, 120, 150 and 180 minutes).

✎ To cancel **Sleep Timer**, select **Off**.

Setting the On/Off Timer

■ **Timer 1 / Timer 2 / Timer 3**: Three different on / off timer settings can be made. You must set the clock first.



On Time / **Off Time**: Set the hour, minute, and activate / inactivate. (To activate timer with the setting you've chosen, set to **Activate**.)

Volume: Set the desired volume level.

Source: Select **TV** or **USB** content to be played when the TV is turned on automatically. (**USB** can be selected only when a USB device is connected to the TV)

Channel (when the **Source** is set to **TV**): Select the desired channel.

Contents (when the **Source** is set to **USB**): Select a folder in the USB device containing music or photo files to be played when the TV is turned on automatically.

✎ If there is no music file on the USB device or the folder containing a music file is not selected, the Timer function does not operate correctly.

✎ When there is only one photo file in the USB device, the Slide Show will not play.

✎ If a folder name is too long, the folder cannot be selected.

✎ Each USB you use is assigned its own folder. When using more than one of the same type of USB, make sure the folders assigned to each USB have different names.

Repeat: Select **Once**, **Everyday**, **Mon~Fri**, **Mon~Sat**, **Sat~Sun** or **Manual** to set at you convenience. If you select Manual, you can set up the day you want to activate the timer.

✎ The ✓ mark indicates the day is selected.

✎ Auto Power Off (available only when the TV is turned on by Timer): The TV will be automatically turned off after 3 hours of being left idle to prevent overheating.

Locking Programs

Security

✎ The PIN input screen appears before the setup screen.

✎ Enter your 4-digit PIN, the default of which is "0-0-0-0". Change the PIN using the **Change PIN** option.

- **Child Lock (Off / On)**: Lock channels in **Channel Manager**, to prevent unauthorized users, such as children, from watching unsuitable programme.
  ✎ Available only when the **Input** source is set to **TV**.
- **Change PIN**: Change your personal ID number required to set up the TV.
  ✎ If you forget the PIN code, press the remote control buttons in the following sequence, which resets the PIN to "0-0-0-0": POWER (off) → MUTE → 8 → 2 → 4 → POWER (on).

Other Features

Menu Language

Set the menu language.

General

- **Game Mode (Off / On)**: When connecting to a game console such as PlayStation™ or Xbox™, you can enjoy a more realistic gaming experience by selecting game mode.

✎ NOTE

- Precautions and limitations for game mode
  - To disconnect the game console and connect another external device, set **Game Mode** to **Off** in the setup menu.
  - If you display the TV menu in **Game Mode**, the screen shakes slightly.
- **Game Mode** is not available in TV and PC mode.
- After connecting the game console, set **Game Mode** to **On** to prevent poor picture quality.
- If **Game Mode** is **On**: **Picture** mode is set to **Standard** and **Sound** mode is set to **Movie**.
- Game Mode is only for playing the game.

- **Menu Transparency (Bright / Dark)**: Set the Transparency of the menu.
- **Melody (Off / Low / Medium / High)**: Set so that a melody plays when the TV is turned on or off.

Picture In Picture (PIP)

PIP TOOLS

Watches simultaneously the TV tuner and one external video source. **PIP** (Picture-in-Picture) does not function in the same mode.

✎ NOTE

- If you turn the TV off while watching in **PIP** mode, the PIP window will disappear.
- You may notice that the picture in the PIP window becomes slightly unnatural when you use the main screen to view a game or karaoke.
- PIP settings

Main picture	Sub picture
Component1	TV, AV2
Component2, HDMI1/ DVI, HDMI2, HDMI3, PC	TV, AV1, AV2

- **PIP (Off / On)**: Activate or deactivate the PIP function.
- **Source (TV / AV1 / AV2)**: Select a source of the sub-picture.
- **Channel**: Select the channel for the sub-screen.
- **Size (/)**: Select a size for the sub-picture.
- **Position (/ / /)**: Select a position for the sub-picture.
- **Sound Select (Main / Sub)** : You can choose the desired sound (**Main / Sub**) in **PIP** mode.

Support Menu

Self Diagnosis

- **Picture Test (Yes / No)**: Use to check for picture problems and if the problem continues to occur check the colour pattern.
- **Sound Test (Yes / No)**: Use the built-in melody sound to check for sound problems.
  ✎ If you hear no sound from the TV's speakers, before performing the sound test, make sure **Speaker Select** is set to **TV speaker** in the **Sound** menu.
  ✎ The melody will be heard during the test even if **Speaker Select** is set to **External Speaker** or the sound is muted by pressing the MUTE button.

■ **Troubleshooting**: If the TV seems to have a problem, refer to this description.

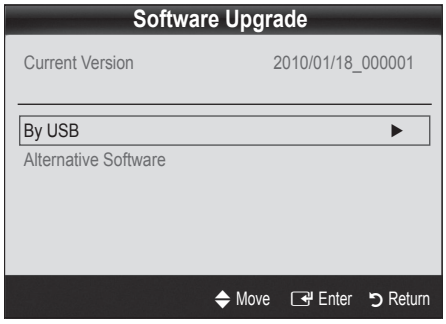
✎ If none of these troubleshooting tips apply, contact the Samsung customer service centre.

Software Upgrade

Software Upgrade can be performed by downloading the latest firmware from samsung.com to a USB memory device.

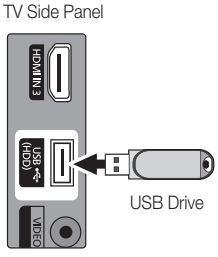
Current Version the software already installed in the TV.

✎ Software is represented as “Year/Month/Day_Version”.



Installing the Latest Version

■ **By USB**: Insert a USB drive containing the firmware upgrade file, downloaded from www.samsung.com, into the TV. Please be careful not to disconnect the power or remove the USB drive until upgrades are complete. The TV will be turned off and on automatically after completing the firmware upgrade. When software is upgraded, video and audio settings you have made will return to their default settings. We advise you to to write down your settings so that you can easily reset them after the upgrade.



■ **Alternative Software** (Not available)

HD Connection Guide

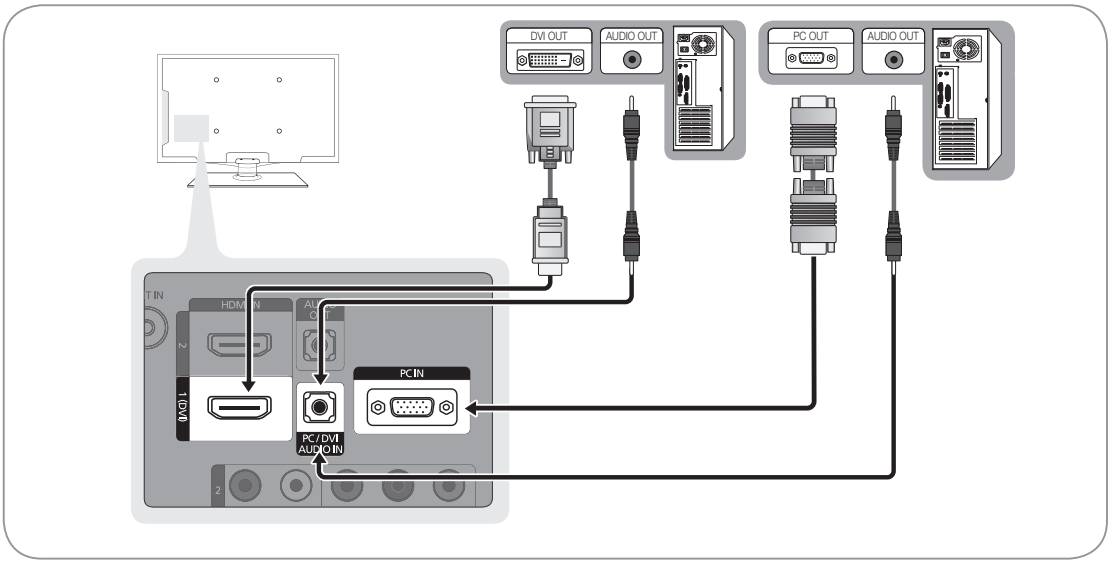
Refer to this information when connecting external devices to the TV.

Contact Samsung

View this information when your TV does not work properly or when you want to upgrade the software. You can find information regarding our call centres, and how to download products and software.

Connecting to a PC

Using an HDMI/DVI Cable / a D-sub Cable



Display Modes (D-Sub and HDMI/DVI Input)

Optimal resolution is 1920X1080@60Hz.

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)
IBM	640 x 350	31.469	70.086	25.175	+/-
	720 x 400	31.469	70.087	28.322	-/+
MAC	640 x 480	35.000	66.667	30.240	-/-
	832 x 624	49.726	74.551	57.284	-/-
	1152 x 870	68.681	75.062	100.000	-/-
VESA CVT	720 x 576	35.910	59.950	32.750	-/+
	1152 x 864	53.783	59.959	81.750	-/+
	1280 x 720	56.456	74.777	95.750	-/+
	1280 x 960	75.231	74.857	130.000	-/+
VESA DMT	640 x 480	31.469	59.940	25.175	-/-
	640 x 480	37.861	72.809	31.500	-/-
	640 x 480	37.500	75.000	31.500	-/-
	800 x 600	37.879	60.317	40.000	+/+
	800 x 600	48.077	72.188	50.000	+/+
	800 x 600	46.875	75.000	49.500	+/+
	1024 x 768	48.363	60.004	65.000	-/-
	1024 x 768	56.476	70.069	75.000	-/-
	1024 x 768	60.023	75.029	78.750	+/+
	1152 x 864	67.500	75.000	108.000	+/+
	1280 x 1024	63.981	60.020	108.000	+/+
	1280 x 1024	79.976	75.025	135.000	+/+
	1280 x 800	49.702	59.810	83.500	-/+
	1280 x 800	62.795	74.934	106.500	-/+
	1280 x 960	60.000	60.000	108.000	+/+
	1280 x 720	45.000	60.000	74.250	+/+
	1360 x 768	47.712	60.015	85.500	+/+
	1440 x 900	55.935	59.887	106.500	-/+
	1440 x 900	70.635	74.984	136.750	-/+
	1680 x 1050	65.290	59.954	146.250	-/+
VESA GTF	1280 x 720	52.500	70.000	89.040	-/+
	1280 x 1024	74.620	70.000	128.943	-/-
VESA DMT / DTV CEA	1920 x 1080p	67.500	60.000	148.500	+/+

NOTE

- For HDMI/DVI cable connection, you must use the **HDMI IN 1(DVI)** jack.
- The interlace mode is not supported.
- The set might operate abnormally if a non-standard video format is selected.
- Separate and Composite modes are supported. SOG(Sync On Green) is not supported.

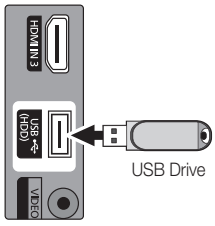
Media Play

Enjoy photos, music and/or movie files saved on a USB Mass Storage Class (MSC) device.

Connecting a USB Device

1. Turn on your TV.
2. Connect a USB device containing photo, music and/or movie files to the **USB (HDD)** jack on the side of the TV.
3. When USB is connected to the TV, popup window appears. Then you can select **Media Play**.

TV Side Panel



✎ It might not work properly with unlicensed multimedia files.

✎ Need-to-Know List before using **Media Play**

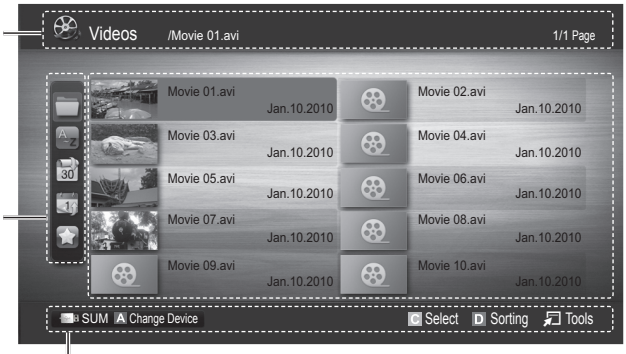
- MTP (Media Transfer Protocol) is not supported.
- The file system supports FAT16, FAT32 and NTFS.
- Certain types of USB Digital camera and audio devices may not be compatible with this TV.
- Media Play only supports USB Mass Storage Class (MSC) devices. MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives, Flash Card Readers (USB HUB are not supported). Devices should be connected directly to the TV's USB port.
- Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.
- Do not disconnect the USB device while it is loading.
- The higher the resolution of the image, the longer it takes to display on the screen.
- The maximum supported JPEG resolution is 15360X8640 pixels.
- For unsupported or corrupted files, the "Not Supported File Format" message is displayed.
- If the files are sorted by Basic View, up to 1000 files can be displayed in each folder.
- MP3 files with DRM that have been downloaded from a non-free site cannot be played. Digital Rights Management (DRM) is a technology that supports the creation, distribution and management of the content in an integrated and comprehensive way, including the protection of the rights and interests of the content providers, the prevention of the illegal copying of contents, as well as managing billings and settlements.
- If more than 2 PTP devices are connected, you can only use one at a time.
- If more than two MSC devices are connected, some of them may not be recognized. A USB device that requires high power (more than 500mA or 5V) may not be supported.
- If an over-power warning message is displayed while you are connecting or using a USB device, the device may not be recognized or may malfunction.
- If the TV has been no input during time set in **Auto Protection Time**, the Screensaver will run.
- The power-saving mode of some external hard disk drives may be released automatically when connected to the TV.
- If a USB extension cable is used, the USB device may not be recognized or the files on the device may not be read.
- If a USB device connected to the TV is not recognized, the list of files on the device is corrupted or a file in the list is not played, connect the USB device to the PC, format the device and check the connection.
- If a file deleted from the PC is still found when Media Play is run, use the "Empty the Recycle Bin" function on the PC to permanently delete the file.

Advanced Features

Screen Display

Move to the desired file using the up/down/right/left buttons and then press the ENTER↵ or ► (Play) button. The file is played.

✎ Supports the **View Devices** and **Contents Mode** in **Media Play** homepage.



Information:
You can ascertain the selected file name and the number of files and page.

Sort List Section:
Displays the sorting standard.

✎ The sorting standard is different depending on the contents.

File List Section:
You can confirm the files and groups that are sorted by category.

Operation Buttons
- A Red (**Change Device**): Selects a connected device.
- B Green (**Preference**): Sets the file preference. (not supported in Basic view)
- C Yellow (**Select**): Selects multiple files from file list. Selected files are marked with a symbol.
- D Blue (**Sorting**): Selects the sort list.
- **Tools**: Displays the option menu.

✎ Using the ◄◄ or ►► button, file list can move to next or previous page.

Videos

Playing Video

1. Press the ◄ or ► button to select **Videos**, then press the ENTER↵ button in the **Media Play** menu.
2. Press the ◄/►/▲/▼ button to select the desired video in the file list.
3. Press the ENTER↵ button or ► (Play) button.
   - The selected file is displayed on the top with its playing time.
   - If video time information is unknown, play time and pregress bar are not displayed.
   - During playing the video, you can search using ◄ and ► button. If you keep pressing down the button on your remote control, exploration be accelerated until 160 seconds from 10 seconds.

✎ In this mode, you can enjoy movie clips contained on a Game, but you cannot play the Game itself.

- Supported Subtitle Formats

Name	File extension	Format
MPEG-4 time-based text	.ttxt	XML
SAMI	.smi	HTML
SubRip	.srt	string-based
SubViewer	.sub	string-based
Micro DVD	.sub or .txt	string-based

- Supported Video Formats

File Extention	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.avi *.mkv	AVI MKV	Divx 3.11 / 4.x / 5.1 / 6.0	1920x1080	6 ~ 30	8	MP3 / AC3 / LPCM / ADPCM / DTS Core
		XviD	1920x1080	6 ~ 30	8	
		H.264 BP / MP / HP	1920x1080	6 ~ 30	25	
		MPEG4 SP / ASP	1920x1080	6 ~ 30	8	
*.asf	ASF	Divx 3.11 / 4.x / 5.1 / 6.0	1920x1080	6 ~ 30	8	MP3 / AC3 / LPCM / ADPCM / WMA
		XviD	1920x1080	6 ~ 30	8	
		H.264 BP / MP / HP	1920x1080	6 ~ 30	25	
		MPEG4 SP / ASP	1920x1080	6 ~ 30	8	
*.wmv	ASF	Window Media Video v9	1920x1080	6 ~ 30	25	WMA
*.mp4	MP4	H.264 BP / MP / HP	1920x1080	6 ~ 30	25	MP3 / ADPCM / AAC
		MPEG4 SP / ASP	1920x1080	6 ~ 30	8	
		XVID	1920x1080	6 ~ 30	8	
*.3gp	3GPP	H.264 BP / MP / HP	1920x1080	6 ~ 30	25	ADPCM / AAC / HE-AAC
		MPEG4 SP / ASP	1920x1080	6 ~ 30	8	
*.vro	VRO VOB	MPEG1	1920x1080	24 / 25 / 30	30	AC3 / MPEG / LPCM
		MPEG2	1920x1080	24 / 25 / 30	30	
*.mpg *.mpeg	PS	MPEG1	1920x1080	24 / 25 / 30	30	AC3 / MPEG / LPCM / AAC
		MPEG2	1920x1080	24 / 25 / 30	30	
		H.264	1920x1080	6 ~ 30	25	
*.ts *.tp *.trp	TS	MPEG2	1920x1080	24 / 25 / 30	30	AC3 / AAC / MP3 / DD+ / HE-AAC
		H.264	1920x1080	6 ~ 30	25	
		VC1	1920x1080	6 ~ 30	25	

Other Restrictions

NOTE

- If there are problems with the contents of a codec, the codec will not be supported.
- If the information for a Container is incorrect and the file is in error, the Container will not be able to play correctly.
- Sound or video may not work if the contents have a standard bitrate/frame rate above the compatible Frame/sec listed in the table above.
- If the Index Table is in error, the Seek (Jump) function is not supported.

Video Decoder	Audio Decoder
• Supports up to H.264, Level 4.1 • H.264 FMO / ASO / RS, VC1 SP / MP / AP L4 and AVCHD are not supported. • H.263 is not supported. • GMC 2 is not support.	• Supports up to WMA 7, 8, 9, STD • WMA 9 PRO does not support 2 channel excess multi channel or lossless audio. • WMA sampling rate 22050Hz mono is not supported.

Basic Features

Playing movie continuously (Resume Play)

If you exit the playing movie function, the movie can be played later from the point where it was stopped.

1. Select the movie file you want to play continuously by pressing the ◄ or ► button to select it from the file list section.
2. Press the ▶ (Play) / ENTER button.
3. Select **Play Continuously** (Resume Play) by pressing the Blue button. The Movie will begin to play from where it was stopped.

   ✎ The Blue button is available when resuming play.

   ✎ If the **Cont. movie play help** function is set to **On** in the **Settings** menu, a pop-up message will appear when you resume play a movie file.

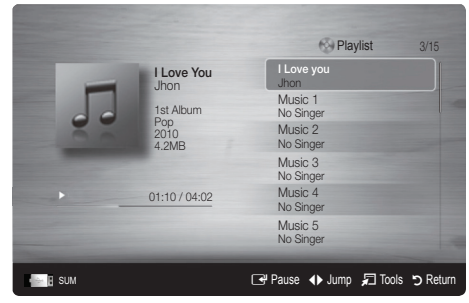
Music

Playing Music

1. Press the ◄ or ► button to select **Music**, then press the **ENTER** button in the **Media Play** menu.
2. Press the ◄/►/▲/▼ button to select the desired Music in the file list.
3. Press the **ENTER** button or ▶ (Play) button.
   - During playing the music, you can search using ◄ and ► button.
   - ◀◀ (REW) and ▶▶ (FF) buttons do not function during play.

✎ Only displays the files with MP3 and PCM file extension. Other file extensions are not displayed, even if they are saved on the same USB device.

✎ If the sound is abnormal when playing MP3 files, adjust the **Equalizer** in the **Sound** menu. (An over-modulated MP3 file may cause a sound problem.)



Photos

Viewing a Photo (or Slide Show)

1. Press the ◄ or ► button to select **Photos**, then press the ENTER button in the **Media Play** menu.
2. Press the ◄/►/▲/▼ button to select the desired photo in the file list.
3. Press the ENTER button or ▶ (Play) button.
   - While a photo list is displayed, press the ▶ (Play) / ENTER button on the remote control to start the slide show.
   - All files in the file list section will be displayed in the slide show.
   - During the slide show, files are displayed in order.

✎ Music files can be automatically played during the Slide Show if the **Background Music** is set to **On**.

✎ The **BGM Mode** cannot be changed until the BGM has finished loading.

Playing Multiple Files

Playing selected video/music/photo files

1. Press the Yellow button in the file list to select the desired file.
2. Repeat the above operation to select multiple files.

NOTE

- The ✓ mark appears to the left of the selected files.
- To cancel a selection, press the Yellow button again.
- To deselect all selected files, press the TOOLS button and select **Deselect All**.

3. Press the TOOLS button and select **Play Selected Contents**.

Playing the video/music/photo file group

1. While a file list is displayed, move to any file in desired group.
2. Press the TOOLS button and select **Play Current Group**.

Media Play - Additional Functions

Sorting the file list

Press the Blue button in the file list to sort the files.

Category	Operation	Videos	Music	Photos
Basic View	Displays the whole folder. You can view the photo by selecting the folder.	✓	✓	✓
Title	Sorts and displays the file title in Symbol/Number/Alphabet/Special order.	✓	✓	✓
Preference	Sorts and displays the file by preference. You can change the file preference in the file list section using the Green button.	✓	✓	✓
Latest Date	Sorts and shows files by the latest date.	✓		✓
Earliest Date	Sorts and shows files by the earliest date.	✓		✓
Artist	Sorts the music file by artist in alphabetical order.		✓	
Album	Sorts the music file by album in alphabetical order.		✓	
Genre	Sorts music files by the genre.		✓	
Mood	Sorts music files by the mood. You can change the music mood information.		✓	
Monthly	Sorts and shows photo files by month.			✓

Videos/Music/Photos Play Option menu

During playing a file, press the TOOLS button.

Category	Operation	Videos	Music	Photos
Title	You can move the other file directly.	✓		
Repeat Mode	You can play movie and music files repeatedly.	✓	✓	
Picture Size (Mode1 / Mode2 / Original)	You can adjust the picture size to your preference.	✓		
Picture Setting	You can adjust the picture setting. (p. 11, 12, 13)	✓		✓
Sound Setting	You can adjust the sound setting. (p. 14, 15)	✓	✓	✓
Subtitle Setting	You can play the video with Subtitles. This function only works if the subtitles are the same file name as the video.	✓		
Audio	You can enjoy video in one of supported languages as required. The function is only enabled when stream-type files which support multiple audio formats are played.	✓		
Stop Slide Show / Start Slide Show	You can start or stop a Slide Show.			✓
Slide Show Speed	You can select the slide show speed during the slide show.			✓
Background Music	You can set and select background music when watching a Slide Show.			✓
Zoom	You can zoom into images in full screen mode.			✓
Rotate	You can rotate images in full screen mode.			✓
Information	You can see detailed information about the played file.	✓	✓	✓

Settings

Using the Setup Menu

- **Cont. movie play help (Resume Play) (On / Off)**: Select to display the help pop-up message for continuous movie playback.
- **Get the DivX® VOD registration code**: Shows the registration code authorized for the TV. If you connect to the DivX web site and register, you can download the VOD registration file. If you play the VOD registration using Media Play, the registration is completed.

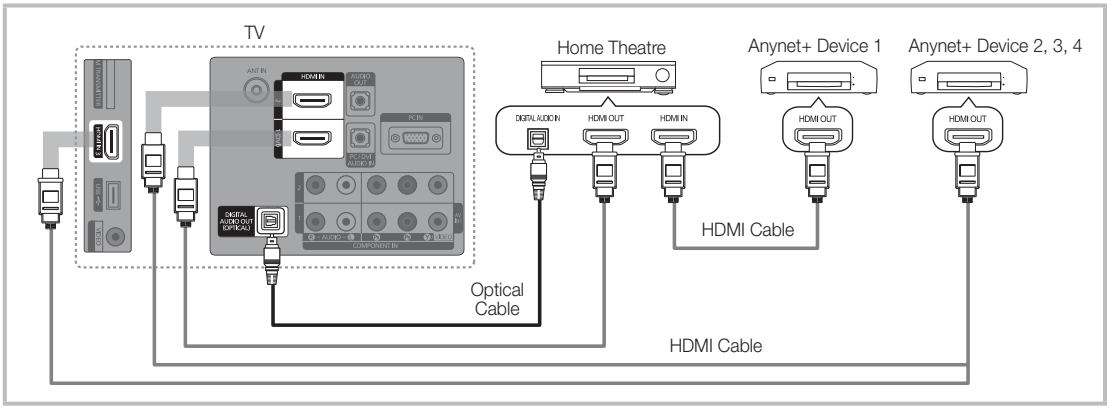
  ✎ For more information on DivX® VOD, visit “www.DivX.com.”
- **Get the DivX® VOD deactivation code**: When DivX® VOD is not registered, the registration deactivation code is displayed. If you execute this function when DivX® VOD is registered, the current DivX® VOD registration is deactivated.
- **Information**: Select to view information about the connected device.

Anynet+

What is Anynet+? TOOLS

Anynet+ is a function that enables you to control all connected Samsung devices that support Anynet+ with your Samsung TV's remote. The Anynet+ system can be used only with Samsung devices that have the Anynet+ feature. To be sure your Samsung device has this feature, check if there is an Anynet+ logo on it.

To connect to Home Theatre



1. Connect the **HDMI IN (1(DVI), 2 or 3)** jack on the TV and the HDMI OUT jack of the corresponding Anynet+ device using an HDMI cable.
2. Connect the HDMI IN jack of the home theatre and the HDMI OUT jack of the corresponding Anynet+ device using an HDMI cable.

✎ **NOTE**

- Connect the Optical cable between the **DIGITAL AUDIO OUT (OPTICAL)** jack on your TV and the Digital Audio Input on the Home Theatre.
- When following the connection above, the Optical jack only outputs 2 channel audio. You will only hear sound from the Home Theatre's Front Left and Right speakers and the subwoofer. If you want to hear 5.1 channel audio, connect the **DIGITAL AUDIO OUT (OPTICAL)** jack on the DVD / satellite box (i.e. Anynet Device 1 or 2) directly to the Amplifier or Home Theatre, not the TV.
- Connect only one Home Theatre.
- You can connect an Anynet+ device using the HDMI cable. Some HDMI cables may not support Anynet+ functions.
- Anynet+ works when the AV device supporting Anynet+ is in the standby or on status.
- Anynet+ supports up to 12 AV devices in total. Note that you can connect up to 3 devices of the same type.

Anynet+ Menu

The Anynet+ menu changes depending on the type and status of the Anynet+ devices connected to the TV.

Anynet+ Menu	Description
View TV	Changes Anynet+ mode to TV broadcast mode.
Device List	Shows the Anynet+ device list.
Recording: (*recorder)	Starts recording immediately using the recorder. (This is only available for devices that support the recording function.)
(device_name) **MENU**	Shows the connected device menus. E.g. If a DVD recorder is connected, the disc menu of the DVD recorder will appear.
(device_name) **INFO**	Shows the play menu of the connected device. E.g. If a DVD recorder is connected, the play menu of the DVD recorder will appear.
Stop Recording: (*recorder)	Stops recording.
Receiver	Sound is played through the receiver.

If more than one recording device is connected, they are displayed as (*recorder) and if only one recording device is connected, it will be represented as (*device_name).

Setting Up Anynet+

■ Setup

Anynet+ (HDMI-CEC) (Off / On): To use the Anynet+ Function, **Anynet+ (HDMI-CEC)** must be set to **On**.

✎ When the **Anynet+ (HDMI-CEC)** function is disabled, all the Anynet+ related operations are deactivated.

Auto Turn Off (No / Yes): Setting an Anynet+ Device to turn off automatically when the TV is turned off.

✎ The active source on the TV must be set to TV to use the Anynet+ function.

✎ Even if an external device is still recording, it may turn off.

Switching between Anynet+ Devices

1. Anynet+ devices connected to the TV are listed.
   ✎ If you cannot find a device you want, press the red button to refresh the list.
2. Select a device and press the ENTER↵ button. You can switch to the selected device.
   ✎ Only when you set **Anynet+ (HDMI-CEC)** to **On** in the **Application** menu, the **Device List** menu appears.
   - Switching to the selected device may take up to 2 minutes. You cannot cancel the operation during the switching operation.
   - If you have selected external input mode by pressing the SOURCE button, you cannot use the Anynet+ function. Make sure to switch to an Anynet+ device by using the **Device List**.

Recording

You can make a recording of a TV programme using a Samsung recorder.

1. Select **Recording**.
   ✎ When there are more than two recording devices
   - When multiple recording devices are connected, the recording devices are listed. Select one recording device in the **Device List**.

   ✎ When the recording device is not displayed, select **Device List** and press the Red button to search devices.

2. Press the EXIT button to exit.
   ✎ You can record the source streams by selecting **Recording**: (device_name).

   ✎ Pressing the ● (REC) button will record whatever you are currently watching. If you are watching video from another device, the video from the device is recorded.

   ✎ Before recording, check whether the antenna jack is properly connected to the recording device. To properly connect an antenna to a recording device, refer to the recording device's users manual.

Listening through a Receiver

You can listen to sound through a receiver (i.e Home Theatre) instead of the TV speaker.

1. Select **Receiver** and set to **On**.
2. Press the **EXIT** button to exit.

✎ If your receiver supports audio only, it may not appear in the device list.

✎ The receiver will work when you have properly connected the optical in jack of the receiver to the **DIGITAL AUDIO OUT (OPTICAL)** jack of the TV.

✎ When the receiver (i.e Home Theatre) is set to On, you can hear sound output from the TV's Optical jack. When the TV is displaying a DTV (aerial) signal, the TV will send out 5.1 channel sound to the receiver. When the source is a digital component such as a DVD and is connected to the TV via HDMI, only 2 channel sound will be heard from the receiver.

✎ **NOTE**

- You can only control Anynet+ devices using the TV remote control, not the buttons on the TV.
- The TV remote control may not work under certain conditions. If this occurs, reselect the Anynet+ device.
- The Anynet+ functions do not operate with other manufacturers' products.

Troubleshooting for Anynet+

Problem	Possible Solution
Anynet+ does not work.	• Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only. • Connect only one receiver (home theatre). • Check if the Anynet+ device power cord is properly connected. • Check the Anynet+ device's Video/Audio/HDMI Cable connections. • Check whether Anynet+ (HDMI-CEC) is set to On in the Anynet+ setup menu. • Check whether the TV remote control is in TV mode. • Check whether it is Anynet+ exclusive remote control. • Anynet+ doesn't work in certain situations. (Searching channels, operating **Media Play** or **Plug & Play** (Initial setup), etc.) • When connecting or removing the HDMI cable, please make sure to search devices again or turn your TV off and on again. • Check if the Anynet+ Function of Anynet+ device is set on.
I want to start Anynet+.	• Check if the Anynet+ device is properly connected to the TV and check if the Anynet+ (HDMI-CEC) is set to On in the Anynet+ Setup menu. • Press the **TOOLS** button to display the Anynet+ menu and select a menu you want.
I want to exit Anynet+.	• Select **View TV** in the Anynet+ menu. • Press the **SOURCE** button on the TV remote control and select a device other than Anynet+ devices. • Press P ∨/∧, **PRE-CH**, and **FAV.CH** to change the TV mode. (Note that the channel button operates only when a tuner-embedded Anynet+ device is not connected.)
The message "Connecting to Anynet+ device..." appears on the screen.	• You cannot use the remote control when you are configuring Anynet+ or switching to a view mode. • Use the remote control when the Anynet+ setting or switching to view mode is complete.
The Anynet+ device does not play.	• You cannot use the play function when **Plug & Play** (Initial setup) is in progress.
The connected device is not displayed.	• Check whether or not the device supports Anynet+ functions. • Check whether or not the HDMI Cable is properly connected. • Check whether **Anynet+ (HDMI-CEC)** is set to **On** in the Anynet+ setup menu. • Search Anynet+ devices again. • You can connect an Anynet+ device using the HDMI Cable only. Some HDMI cables may not support Anynet+ functions. • If it is terminated by an abnormal situation such as disconnecting the HDMI cable or power cord or a power failure, please repeat the device scan.
The TV programme cannot be recorded.	• Check whether the antenna jack on the recording device is properly connected.
The TV sound is not output through the receiver.	• Connect the optical cable between TV and the receiver.

Other Information

FM Transmitter Setup

✎ Not available in some locations

Frequency Configuration

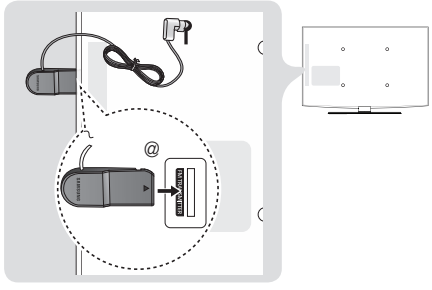
- FM transmitter's frequency must be set differently from any FM radio frequency in the vicinity of the TV in order to achieve good signal receptivity free of radio interference.
- If a TV channel frequency falls within the FM frequency range, the FM transmitter will automatically update its permissible frequency range.
- Identical TV channel and FM transmitter frequency will result in signal interference. To prevent this, the FM transmitter's frequency range is automatically displayed.
- If there is no TV channel frequency within the FM frequency range (83MHz to 108MHz), the entire range from 88.0MHz to 107.9MHz is available for use.

FM Transmitter Installation Guide

The FM transmitter module features an integrated antenna. Antenna signal strength will vary depending on where the antenna is installed and on the performance of the receiver. If you experience poor signal strength, try installing the antenna in one of the methods shown below:

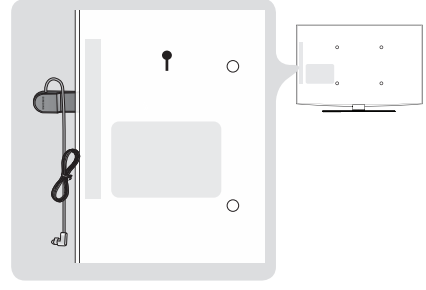
Method 1

Slightly extend the antenna and insert the end into an FM transmitter mounting hole.



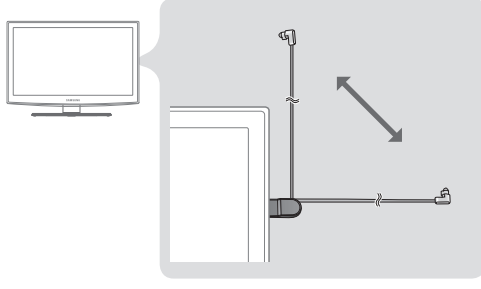
Method 2

Attach the FM transmitter and let the antenna drop.



Method 3

Unwind and position an antenna where the receiver gets best reception.



✎ NOTE

- This feature is not available in all countries.
- Installing the antenna directly on the back of the TV may result in poor signal strength. Allow some room between the TV and the antenna.
- Having the FM transmitter antenna in direct contact with the TV antenna can result in signal interference.
- If the FM Transmitter menu is not active, check to see if the transmitter has been properly connected in the direction of the holes(@).
- If listening to TV audio through an FM receiver (e.g. a radio or a home theatre) using an FM frequency, position the FM receiver's antenna for maximum signal strength.
- If listening to TV audio through an FM receiver (e.g. a radio or a home theatre) using an FM frequency, you will be able to enjoy the audio within a 10m radius (open site), regardless of direction or location.
- Only use the FM transmitter supplied as an accessory. Otherwise, you may damage the product.
- Do not use the FM transmitter supplied as an accessory with other products.
- Match the TV's FM transmitter frequency with the FM receiver's (e.g. a radio or a home theatre) frequency.
- If the FM receiver's (e.g. a radio or a home theatre) frequency does not match, you will not be able to hear the audio.
- Adjust the FM receiver's volume to an appropriate level.
- With the TV powered off, you will hear noise from the FM receiver (e.g. a radio or a home theatre).
- Frequency interference with other electronic devices is an issue common to all radio communications devices and can cause interruptions in audio and/or noise.

Supported FM Transmitter formats

	SPEC	
Frequency Range	Normal	88.0MHz ~ 107.9MHz
	Match the TV Frequency	Automatic range setting (In 88.0MHz ~107.9MHz)
Transfer distance	Minimum 1m ~ 5m (Maximum 5m~10m : Depend on Antenna position and receiver quality)	

Other Information

Analogue Channel Teletext Feature

The index page of the Teletext service gives you information on how to use the service. For Teletext information to be displayed correctly, channel reception must be stable. Otherwise, information may be missing or some pages may not be displayed.

✎ You can change Teletext pages by pressing the numeric buttons on the remote control.

❶ (Teletext on/mix): Activate the Teletext mode after selecting the channel providing the Teletext service. Press it twice to overlap the Teletext mode with the current broadcasting screen.

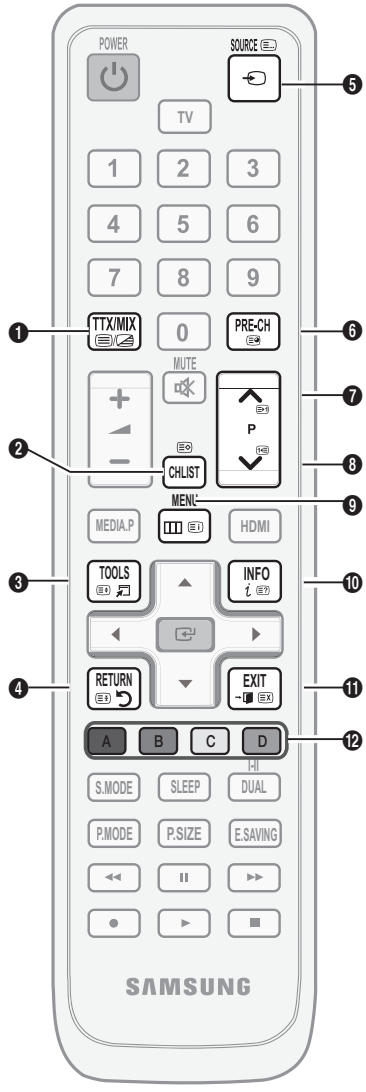
❷ (store): Store the Teletext pages.

❸ (size): Display the double-size letters on the upper half of the screen. For the lower half of the screen, press it again. To display the normal screen, press it once again.

❹ (hold): Hold the display on a given page if the selected page is linked with several secondary pages which follow on automatically. To resume, press it again

❺ (mode): Select the Teletext mode (LIST/ FLOF).
If you press this button in the LIST mode, the mode is switched into the List save mode. In the List save mode, you can save a Teletext page into list using the (store) button.

❻ (sub-page): Display the available sub-page.



(page up): Display the next Teletext page. ❼

(page down): Display the previous Teletext page. ❽

(index): Display the index (contents) page at any time while you are viewing Teletext. ❾

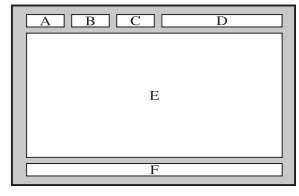
(reveal): Display the hidden text (answers to quiz games, for example). To display the normal screen, press it again. ❿

(cancel): Display the current broadcast when searching for a page. ⓫

Colour buttons (red/green/yellow/blue): If the FASTEXT system is used by a broadcasting company, the different topics covered on a Teletext page are colour-coded and can be selected by pressing the coloured buttons. Press one of them corresponding to the required. The page is displayed with other coloured information that can be selected in the same way. To display the previous or next page, press the corresponding coloured button. ⓬

The Teletext pages are organized according to six categories:

Part	Contents	Part	Contents
A	Selected page number.	D	Date and time.
B	Broadcasting channel identity.	E	Text.
C	Current page number or search indications.	F	Status information. FASTEXT information.



Anti-theft Kensington Lock

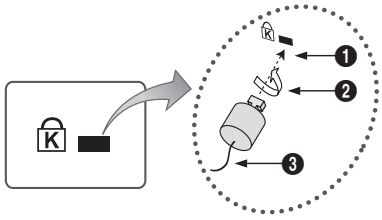
The Kensington Lock is not supplied by Samsung. It is a device used to physically fix the system when using it in a public place. The appearance and locking method may differ from the illustration depending on the manufacturer. Refer to the manual provided with the Kensington Lock for additional information on proper use.

✎ Please find a "" icon on the rear of the TV.
A kensington slot is beside the "" icon.

1. Insert the locking device into the Kensington slot ❶ on the LCD TV and turn it as shown (❷).
2. Connect the Kensington Lock cable (❸).
3. Fix the Kensington Lock to a desk or a heavy stationary object.

✎ The locking device has to be purchased separately.

✎ The location of the Kensington slot may be different depending on the TV model.

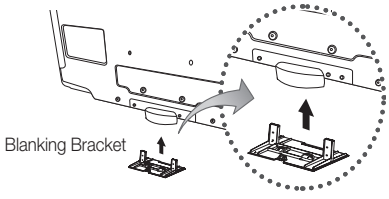


<Optional>

Installing the Wall Mount

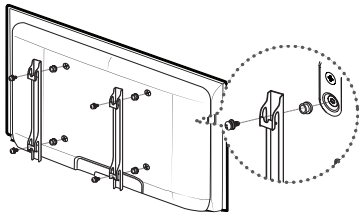
Assembling the Blanking Bracket

When installing the TV onto a wall, attach the Blanking Bracket into the part that connects to the stand as shown in the picture.



Preparing before installing Wall-Mount (46 inch TV)

To install a wall-mount from another manufacturer, use the Holder-Ring.



Installing the Wall Mount Kit

Wall mount items (sold separately) allow you to mount the TV on the wall.

For detailed information on installing the wall mount, see the instructions provided with the Wall Mount items. Contact a technician for assistance when installing the wall mount bracket.

Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you elect to install the TV on your own.

Other Information

Wall Mount Kit Specifications (VESA)

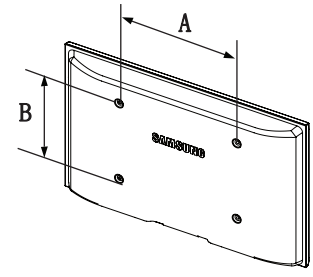
✎ Wall mount kit is not supplied but sold separately.

Install your wall mount on a solid wall perpendicular to the floor. When attaching to other building materials, please contact your nearest dealer. If installed on a ceiling or slanted wall, it may fall and result in severe personal injury.

✎ **NOTE**

- Standard dimensions for wall mount kits are shown in the table below.
- When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly are provided.
- Do not use screws longer than the standard dimension, as they may cause damage to the inside of the TV set.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on their specifications.
- Do not use screws that do not comply with the VESA standard screw specifications.
- Do not fasten the screws too strongly, this may damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- Do not exceed 15 degrees tilt when mounting this TV.

Product Family	inches	VESA Spec. (A * B)	Standard Screw	Quantity
LCD-TV	19~22	75 X 75 100 X 100	M4	4
	23~29	200 X 100		
	30~40	200 X 200	M6	
	46~55	400 X 400	M8	
	57~65	600 X 400		
	70~80	800 X 400		
	80~	1400 X 800		



Do not install your Wall Mount Kit while your TV is turned on. It may result in personal injury due to electric shock.

Securing the TV to the Wall

Caution: Pulling, pushing, or climbing onto the TV may cause the TV to fall. In particular, ensure that your children do not hang over or destabilize the TV; doing so may cause the TV to tip over, resulting in serious injuries or death. Follow all safety precautions provided on the included Safety Flyer. For added stability, install the anti-fall device for safety purposes, as follows.

To avoid the TV from falling

✎ Since the necessary clamps, screws, and string are not supplied, please purchase these additionally.

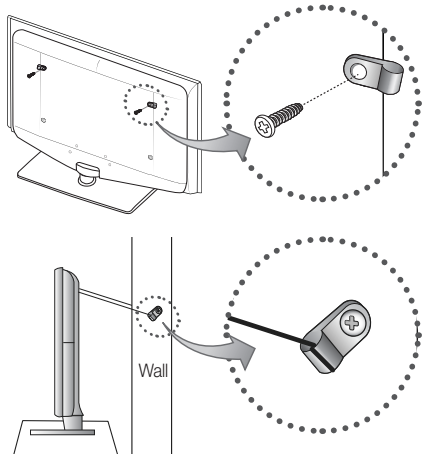
1. Drive the screws into the clamps and firmly fasten them onto the wall. Make sure the screws are firmly fixed into the wall.
   ✎ Screw Specifications
   - For a 30~40 inch LCD TV : M6
   - For a 46~55 inch LCD TV : M8
2. Remove the screws from the centre back of the TV, put the screws into the clamps, and then fasten the screws onto the TV again.
3. Connect the clamps fixed onto the TV and the clamps fixed onto the wall with a strong string and then tie the string tightly.

✎ Verify all connections are properly secured. Periodically check connections for any sign of fatigue for failure. If you have any doubt about the security of your connections, contact a professional installer.

✎ Install the TV near to the wall so that it does not fall backwards.

✎ It is safe to connect the string so that the clamps fixed on the wall are equal to or lower than the clamps fixed on the TV.

✎ Untie the string before moving the TV.



Other Information

Troubleshooting

If you have any questions of TV, first refer to this list. If none of these troubleshooting tips apply, please visit 'www.samsung.com' site, then click on Support or contact Call Centre on list of last page.

Issue	Solution
Picture Quality	First of all, please perform the **Picture Test** to confirm that your TV is properly displaying test image. ■ Go to MENU - **Support - Self Diagnosis - Picture Test** (P. 16) If the test image is properly displayed, the poor picture may caused by the source or signal.
TV image does not look as good as it did in the store.	■ If you have an analog Cable/Set top box, upgrade to an Box. Use HDMI or Component cables to deliver HD picture quality. ■ Cable/Satellite subscriber : Try HD(High Definition) stations from channel line up. ■ Antenna connection: Try HD stations after performing Auto programme. ✎ Many HD channels are upscaled from SD (Standard Definition) contents. ■ Adjust Cable/Set top box video output resolution to 1080i or 720p.
Picture is distorted: macroblock, small block, dots, pixelization	■ Compression of video contents may cause picture distortion especially on fast moving pictures such as sports and action movies. ■ Low signal level can cause picture distortion. This is not a TV issue. Have the antenna accessed.
Wrong or missing colour with Component connection.	■ Make sure the Component cables are connected to the correct jacks. Incorrect or loose connections may cause colour problems or the screen will be blank.
Poor colour or brightness.	■ Adjust **Picture** options in the TV menu. (**Picture Mode**, **Colour, Brightness, Sharpness**) ■ Adjust **Energy Saving** option in **Eco Solution** menu. ■ Try picture reset to view the default picture setting. (Go to MENU - **Picture - Picture Reset**) (P. 13)
Dotted line on the edge of screen.	■ If picture size is set to **Screen Fit**, change to **16:9**. ■ Change cable/set top box resolution.
Picture is black and white with AV (Composite) input only.	■ Confirm Composite (yellow) cable is in yellow jack in source as well as TV
Picture freezes or is distorted when changing channels or picture is delayed.	■ If connected with cable /set top box, please try to reset cable box. (reconnect AC cord and wait until cable box reboots. It may take up to 20 minutes.) ■ Set output resolution of cable box to 1080i or 720p.
Sound Quality	First of all, please perform the **Sound Test** to confirm that your TV audio is properly operating. ■ Go to MENU - **Support - Self Diagnosis - Sound Test** (P. 16) If the audio is **OK**, the sound problem may caused by the source or signal.
No sound or sound is too low at maximum volume.	■ Please check the volume of device (Cable/Sat Box, DVD, Blu-ray etc) connected to your TV. Then, adjust the TV volume accordingly.
Picture is good but no sound.	■ Set the **Speaker Select** option to **TV speaker** in the sound menu. (P. 14) ■ Make sure audio cables from an external device are connected to correct audio input jacks on the TV. ■ Check connected device's audio output option. Ex) You may need to change your cable box' audio option to HDMI when you have HDMI connected to your TV. ■ If you are using a DVI to HDMI cable, a separate audio cable is required. ■ Remove plug from headphone jack (if available on your TV). ■ Reboot the connected device by reconnecting the device's power cable.
Noise from speaker.	■ Check cable connections. Make sure a video cable is not connected to an audio input.

Issue	Solution
No Picture, No Video	
TV won't turn on.	■ Make sure the AC power cord is plugged in securely to the wall outlet and the TV. ■ Make sure the wall outlet is working. ■ Try pressing the **POWER** button on the TV to make sure the remote is working properly. If the TV turns on, it may be caused by Remote Control. To fix the Remote problem, refer to "Remote control does not work" below.
TV turns off automatically.	■ Check if the **Sleep Timer** is set to **On** in the **Setup** menu. ■ If connected the TV to your PC, check your PC power settings. ■ Make sure the AC power cord is plugged in securely to the wall outlet and the TV. ■ If there is no signal for about 10 ~ 15 minutes with Antenna/Cable connection, the TV will turn off.
No picture/Video.	■ Check cable connections. (remove and reconnect all cables of TV and external devices) ■ Set your external device's (Cable/Sat Box, DVD, Blu-ray etc) video output to match the connections to the TV input. For example, external device's output : HDMI , TV's input : HDMI. ■ Make sure your connected device is powered on. ■ Make sure to select the TV's correct source by pressing the **SOURCE** button on the remote control. ■ Reboot the connected device by reconnecting the device's power cable
RF (Cable/Antenna) Connection	
Cannot receive all channels.	■ Make sure Antenna cable is connected securely. ■ Please try **Plug & Play** (Initial setup) to add available channels to the channel list. Go to **MENU** - **Setup - Plug & Play** (Initial setup) and wait for all available channels are stored. (P. 6) ■ Verify Antenna is positioned correctly.
Picture is distorted: macroblock, small block, dots, pixelization	■ Compression of video contents may cause picture distortion especially on fast moving pictures such as sports and action movies. ■ Low signal level can cause picture distortion. This is not a TV issue.
PC Connection	
'Not Supported Mode' message.	■ Set your PC's output resolution and frequency so it matches the resolutions supported by the TV. (P. 18)
PC is always shown on source list even if not connected.	■ This is normal; PC is always shown on the source list even though a PC is not connected.
Video is OK but there is no audio with HDMI connection.	■ Check the audio output setting on your PC.
Others	
Picture is not shown in full screen.	■ Black bars on each side will be shown on HD channels when displaying upscaled SD (4:3) contents. ■ Black bars on Top & Bottom will be shown on movies that have aspect ratios different from your TV. ■ Adjust picture size option on your external device or TV to full screen
Remote control does not work.	■ Replace the remote control batteries with correct polarity (+/–). ■ Clean the transmission window located on the top of the remote. ■ Try pointing the remote directly at the TV from 5~6 feet away.
Can not control TV power or volume with Cable/Set top box remote control.	■ Programme the Cable/Set top box remote control to operate the TV. Refer to Cable/Sat user manual for SAMSUNG TV code.
'Not Supported Mode' message.	■ Check the supported resolution of the TV and adjust the external device's output resolution accordingly. Refer to resolution settings in this manual.
Plastic smell from TV.	■ This smell is normal and will dissipate over time.
TV is tilted to right or left side.	■ Remove the stand base from TV and reassemble.
Can not assemble stand base.	■ Make sure TV is placed on flat surface. If can not remove screws from TV, please use magnetized screw driver.

Other Information

Issue	Solution
Channel menu is grey out. (unavailable)	■ **Channel** menu is only available when TV source is selected.
Your settings are lost after 30 minutes or every time TV is turned off.	■ If TV is in the **Store Demo** mode, it will reset audio and picture settings every 30 minutes. Please change from **Store Demo** mode to **Home Use** mode in the **Plug & Play** (Initial setup) procedure. Press the SOURCE button to select TV mode, go to MENU → **Setup** → **Plug & Play** (Initial setup) → ENTER↵. (P. 6)
Intermittent loss of audio or video.	■ Check cable connections and reconnect. ■ Can be caused by using overly rigid or thick cables. Make sure the cables are flexible enough for long term use. If wall mounting, we recommend using cables with 90 degree connectors.
You may see small particles if you look closely at the edge of the bezel surrounding the TV screen.	■ This is part of the product's design and is not a defect.
PIP menu is not available.	■ **PIP** functionality is only available when you are watching an HDMI, PC or components source.
When turned off and 45 minutes later, TV is turned on itself.	■ It is normal, the TV operate OTA (Over The Air) function itself to upgrade firmware downloaded during watching.
Recurrent picture/sound issue.	■ Check and change signal/source.
A reaction may occur between the rubber cushion pads on the base stand and top finish of some furniture.	■ To prevent this use felt pads on any surface that comes in direct contact with furniture.

✎ This TFT LCD panel uses a panel consisting of sub pixels which require sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

License

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DivX HD

DivX Certified to play DivX video up to HD 1080p, including premium content.

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dts 2.0+Digital Out

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Specifications

Panel native	1920 x 1080 @ 60 Hz			
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	10°C to 40°C (50°F to 104°F) 10% to 80%, non-condensing -20°C to 45°C (-4°F to 113°F) 5% to 95%, non-condensing			
Stand Swivel (Left / Right)	-20˚ ~ 20˚			
Model Name	LA32C530	LA37C530	LA40C530	LA46C530
Screen Size (Diagonal)	32 inch	37 inch	40 inch	46 inch
Sound Output	10 W X 2			
Dimensions (WxDxH) Body With stand	783.0 X 76.2 X 497.5 (mm) 783.0 X 220.2 X 546.2 (mm)	901.8 X 76.9 X 561.8 (mm) 901.8 X 240.0 X 613.6 (mm)	970.0 X 78.6 X 600.1 (mm) 970.0 X 240.0 X 653.5 (mm)	1102.4 X 78.7 X 676.3 (mm) 1102.4 X 260.1 X 733.2 (mm)
Weight Body With Stand	8.76 kg 10.76 kg	11.34 kg 14.24 kg	14.4 kg 17.3 kg	16.74 kg 20.64 kg

✎ Design and specifications are subject to change without prior notice.

✎ For the power supply and power consumption, refer to the label attached to the product.

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